

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/011840

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56 H04B7/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L H04B H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>US 2002/041584 A1 (SASHIHARA TOSHIYUKI) 11 April 2002 (2002-04-11) abstract page 1, left-hand column, line 1 - page 2, right-hand column, line 16 page 3, left-hand column, line 5 - right-hand column, line 16 page 5, left-hand column, line 35 - line 44 page 6, left-hand column, line 36 - line 38 claim 1 figures 5,8</p> <p style="text-align: center;">----- -/--</p>	1-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents :**

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

22 February 2005

Date of mailing of the international search report

01/03/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 400 698 B1 (SHAHEEN KAMEL) 4 June 2002 (2002-06-04) abstract column 2, line 32 - line 46 column 3, line 22 - column 4, line 28 column 5, line 40 - column 7, line 42 -----	1-17
A	US 2002/080768 A1 (GARCIA-LUNA-ACEVES J.J ET AL) 27 June 2002 (2002-06-27) abstract paragraph '0010! - paragraph '0019! claims 1,17 figure 4c -----	1-17
A	US 2003/002449 A1 (RITTLE LOREN J ET AL) 2 January 2003 (2003-01-02) abstract paragraph '0028! - paragraph '0034! paragraph '0038! - paragraph '0039! figure 1 -----	1-17

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Information on patent family members

International Application No
PCT/EP2004/011840

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002041584	A1	11-04-2002	JP 3518597 B2 JP 2002118875 A	12-04-2004 19-04-2002
US 6400698	B1	04-06-2002	NONE	
US 2002080768	A1	27-06-2002	AU 8644701 A WO 0215485 A1	25-02-2002 21-02-2002
US 2003002449	A1	02-01-2003	WO 03005630 A2	16-01-2003